

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

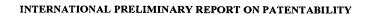
Applicant's or agent's file reference				
JST-107-PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/JP2004/002889	05.03.2004	17.03.2003		
International Patent Classification (IPC) or nation	onal classification and IPC			
Applicant				
JAPAN SCIENCE AND TEC	CHNOLOGY AGENCY			
This report is the international prelin under Article 35 and transmitted to the	unary examination report, established by applicant according to Article 36.	this International Preliminary Examining Authority		
2. This REPORT consists of a total of _	sheets, inc	luding this cover sheet.		
3. This report is also accompanied by Al	NNEXES, comprising:			
a. (sent to the applicant and	to the International Bureau) a total of 9	sheets, as follows:		
sheets of the descrip	tion, claims and/or drawings which have b	een amended and are the basis for this report and/or ee Rule 70.16 and Section 607 of the Administrative		
Instructions).				
sheets which superso	ede earlier sheets, but which this Authority	y considers contain an amendment that goes beyond cated in item 4 of Box No. I and the Supplemental		
Box.	mornarional application as med, as man	back in hem 4 of Box 100. I and the Supplemental		
b. (sent to the International I	Bureau only) a total of (indicate type and n	umber of electronic carrier(s))		
		, containing a sequence listing and/or tables		
related thereto, in computer Section 802 of the Administ		upplemental Box Relating to Sequence Listing (see		
4. This report contains indications relation	ng to the following items:			
Box No. I Basis of the	report			
Box No. II Priority				
Box No. III Non-establis	shment of opinion with regard to novelty, i	nventive step and industrial applicability		
	y of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain doce	uments cited			
Box No. VII Certain defe	ects in the international application			
Box No. VIII Certain obse	ervations on the international application			
Date of submission of the demand Date of completion of this report				
Date of submission of the demand	Date of completion	of this report		
Name and mailing address of the IPEA/JP	Authorized officer			
	, issue officer			
Facsimile No.	Telephone No			



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/002889

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3) 2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the received (fiftee in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description: pages 4,6-8 as originally filed/furnished the description: pages* 1,2,2/1,3,5,9,10 received by this Authority on pages* 1,2,2/1,3,5,9,10 as a smended (together with any statement) under Article 19 nos.* as originally filed/furnished nos.* nos. as a smended (together with any statement) under Article 19 nos.* 1,3-7 received by this Authority on the drawings: sheets 1-8 as amended (together with any statement) under Article 19 nos.* as originally filed/furnished sheets* received by this Authority on as equence listing and/or any related table(s)—see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, nos. 2,8-11 the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they are been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	maceted under this item. This report is based on translations from the original language into the following language which is the language of a translation florished for the purposes of: International search (Rule 12.3 and 23.1(b))	Box	No. I	Basis of the report			
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International application No.
PCT/JP2004/002889

Box			ticle 35(2) with regard to novelty, inventive step or industrial porting such statement	l applicability;
1.	Statement			
	Novelty (N)	Claims		YES
		Claims	1, 3-7	NO
	Inventive step (IS)	Claims		YES
		Claims	1, 3-7	NO NO
	Industrial applicability (IA)	Claims	1, 3-7	YES
		Claims		NO NO

2. Citations and explanations (Rule 70.7)

Claims 1 and 3 to 5

A semiconductor storage element comprising a lower electrode formed on a semiconductor single crystal substrate with an insulating layer interposed therebetween, a ferroelectric film and an upper electrode is known (see JP 2002-299582 A, JP 2002-299581 A and JP 2002-110932 A, for example), and it would be easy for a person skilled in the art to apply the configuration set forth in document 1 (JP 9-089651 A) cited in the international search report as a configuration for the lower electrode, ferroelectric film and upper electrode in such a known semiconductor storage element. Therefore the inventions set forth in claims 1 and 3 to 5 lack novelty and do not involve an inventive step.

Claims 6 and 7

An ultrasonic sensor comprising a lower electrode formed on a semiconductor single crystal substrate with an insulating layer interposed therebetween, a ferroelectric film and an upper electrode is known (see JP 7-298394 A, JP 7-183397 A and JP 7-055919 A, for example), and it would be easy for a person skilled in the art to apply the configuration set forth in document

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/002889

Box No. V Reasoned	statement under Article 35(2) with reg	ard to novelty, inventive step or industrial applicability;
	and explanations supporting such states	went uration for the lower
•	_	
electrode,	ferroelectric film	and upper electrode in such
a known sem	iconductor storage	element. Therefore the
invention s	et forth in claims	6 and 7 lacks novelty and
does not in	nvolve an inventive	step.
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